

**Table 1. 1998 Summary Statistics**

Item	Value	U.S. Rank	Item	Value	U.S. Rank
NERC Region(s)		ECAR	<b>Utility</b>		
Net Exporter or Importer		Exporter	Capability (MW)	14,495	20
Primary Generating Fuel		Coal	Generation (MWh)	89,605,447	14
Population (as of 7/98)	1,811,688	35	Average Age of Plants (years)		
Average Electricity Price (cents/kWh) <sup>a</sup>	5.07	7	Coal-fired	28	
Industrial	3.78	11	Petroleum-fired	31	
Commercial	5.56	7	Hydroelectric	68	
Residential	6.29	6	<b>Nonutility</b>		
<b>Industry</b>			Capability (MW)	570	30
Capability (MW)	15,065	22	Share of Capability (Percent)	3.8	37
Generation (MWh)	92,822,187	15	Generation (MWh)	3,216,740	29
Capability/person			Share of Generation (Percent)	3.5	37
(KWe/person)	8.32	2			
Generation/person					
(MWh/person)	51.24	2			
Emissions (Thousand Short Tons)					
Sulfur Dioxide	853	3			
Nitrogen Oxide	311	8			
Carbon Dioxide	91,161	7			
Sulfur Dioxide/sq. mile (Tons)	35.41	1			
Nitrogen Oxides/sq. mile (Tons)	12.9	3			
Carbon Dioxide/sq. mile (Tons)	3,784.64	3			

**Table 2. Five Largest Plants, 1998**

Plant	Energy Source <sup>b</sup>	Operating Company	Net Capability (MW)	Age (Years)
1. John E Amos . . . . .	Coal	Appalachian Power Co	2,900	27
2. Harrison . . . . .	Coal	Monongahela Power Co	1,920	26
3. Mitchell . . . . .	Coal	Ohio Power Co	1,600	27
4. Mt Storm . . . . .	Coal	Virginia Electric & Power Co	1,599	33
5. Mountaineer (1301) . . . . .	Coal	Appalachian Power Co	1,300	18

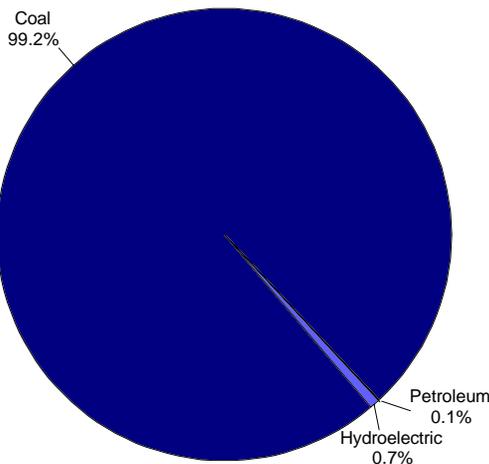
**Table 3. Top Five Utilities Ranked by Retail Sales Revenue Within the State, 1998**  
(Million Dollars)

Utility	All Sectors	Residential	Commercial	Industrial	Other
A. Appalachian Power Company . . . . .	598	259	162	174	3
B. Monongahela Power Company . . . . .	482	185	116	179	2
C. The Potomac Edison Company . . . . .	136	74	33	29	1
D. Wheeling Power Company . . . . .	84	25	20	37	1
E. UtiliCorp United, Inc . . . . .	28	17	9	2	1
Total . . . . .	1,328	559	340	421	8
Percentage of Utility Sales . . . . .	99	98	99	100	92

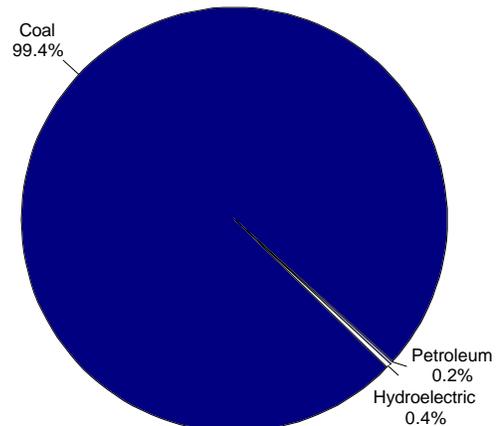
**Table 4. Electric Power Industry Generating Capability by Plant Type, 1988, 1993, and 1998**  
(Megawatts Electric)

Plant Type	1988	1993	1998	Annual Growth Rate 1988-1998 (Percent)	Percentage Share 1988	Percentage Share 1993	Percentage Share 1998
Total Utility . . . . .	14,499	14,448	14,495	0.0	95.2	95.5	96.2
Coal-fired . . . . .	14,304	14,328	14,381	0.1	93.9	94.7	95.5
Petroleum-fired . . . . .	12	12	12	0.0	0.1	0.1	0.1
Hydroelectric . . . . .	183	108	102	-5.7	1.2	0.7	0.7
Total Nonutility . . . . .	729	675	570	-2.4	4.8	4.5	3.8
Industry . . . . .	15,228	15,122	15,065	-0.1	100.0	100.0	100.0

**Figure 1. Utility Generating Capability by Plant Type, 1998**



**Figure 2. Utility Generation by Primary Energy Source, 1998**



**Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1988, 1993, and 1998**  
(Megawatthours)

Fuel	1988	1993	1998	Annual Growth Rate 1988-1998 (Percent)	Percentage Share 1988	Percentage Share 1993	Percentage Share 1998
Total Utility . . . . .	81,314,288	71,078,069	89,605,447	1.0	96.6	95.1	96.5
Coal . . . . .	80,746,611	70,491,516	89,007,644	1.0	96.0	94.3	95.9
Petroleum . . . . .	260,355	210,975	194,277	-2.9	0.3	0.3	0.2
Gas . . . . .	9,827	13,461	42,195	15.7	*	*	*
Hydroelectric . . . . .	297,495	362,117	361,331	2.0	0.4	0.5	0.4
Total Nonutility . . . . .	2,833,493	3,671,094	3,216,740	1.3	3.4	4.9	3.5
Industry . . . . .	84,147,781	74,749,163	92,822,187	1.0	100.0	100.0	100.0

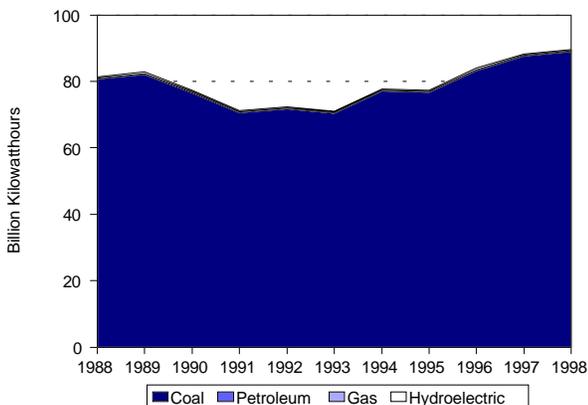
**Table 6. Utility Delivered Fuel Prices for Coal, Petroleum, and Gas, 1988, 1993, and 1998**  
(Cents per Million Btu, 1998 Dollars)

Fuel	1988	1993	1998	Annual Growth Rate 1988-1998 (Percent)
Coal . . . . .	144.1	141.8	122.2	-1.6
Petroleum . . . . .	395.8	461.9	370.9	-0.6
Gas . . . . .	389.2	435.5	351.4	-1.0

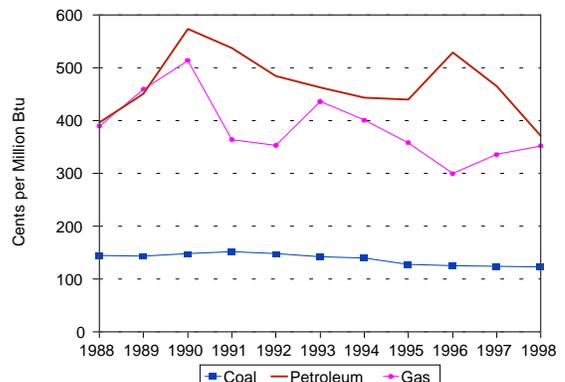
**Table 7. Electric Power Industry Emissions Estimates, 1988, 1993, and 1998**  
(Thousand Short Tons)

Emission Type	1988	1993	1998	Annual Growth Rate 1988-1998 (Percent)
Sulfur Dioxide . . . . .	947	1,017	853	-1.0
Nitrogen Oxides <sup>c</sup> . . . . .	328	270	311	-0.5
Carbon Dioxide <sup>c</sup> . . . . .	80,872	70,847	91,161	1.3

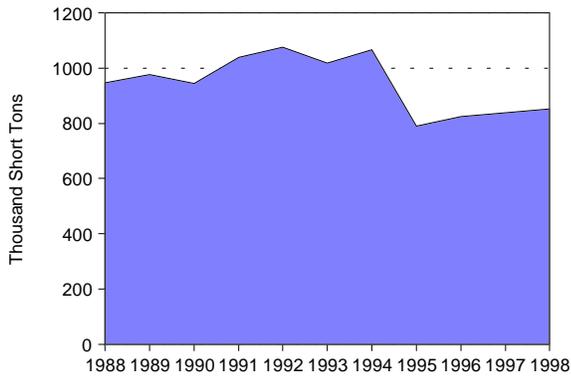
**Figure 3. Utility Generation of Electricity by Primary Energy Source, 1988-1998**



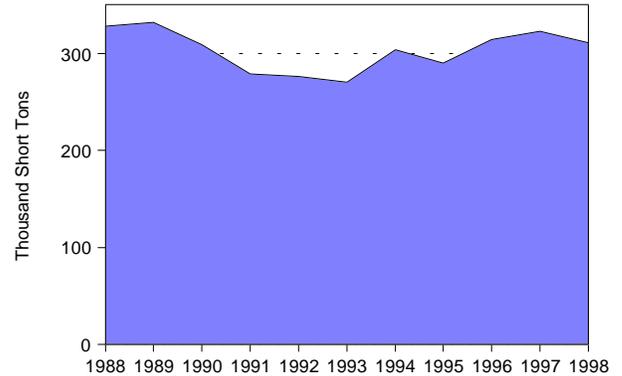
**Figure 4. Utility Delivered Fuel Prices for Coal, Petroleum, and Gas, 1988-1998**  
(1998 Dollars)



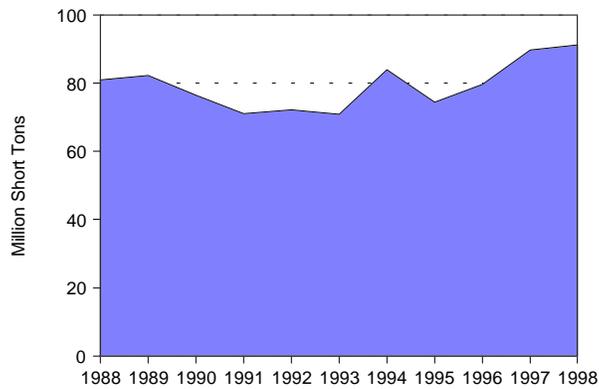
**Figure 5. Estimated Sulfur Dioxide Emissions, 1988-1998**



**Figure 6. Estimated Nitrogen Oxide Emissions, 1988-1998**



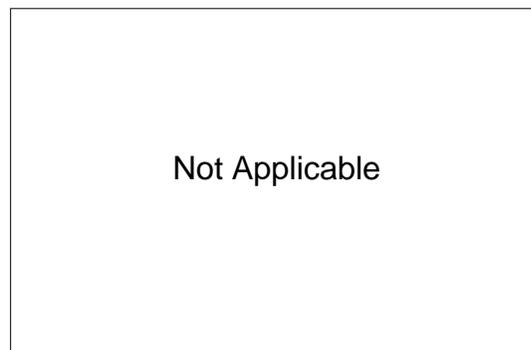
**Figure 7. Estimated Carbon Dioxide Emissions, 1988-1998**



**Table 8. Utility Retail Sales by Sector, 1988, 1993, and 1998**  
(Megawatthours)

Sector	1988	1993	1998	Annual Growth Rate 1988-1998 (Percent)	Percentage Share 1988	Percentage Share 1993	Percentage Share 1998
Residential . . .	7,548,776	8,682,375	9,053,002	1.8	33.7	35.5	34.1
Commercial . .	4,823,408	5,480,458	6,207,810	2.6	21.5	22.4	23.4
Industrial . . . .	9,925,196	10,187,147	11,161,136	1.2	44.3	41.7	42.1
Other . . . . .	90,590	91,545	89,313	-0.1	0.4	0.4	0.3
Total . . . . .	22,387,970	24,441,525	26,511,261	1.7	100.0	100.0	100.0

**Figure 8. Nuclear Power Capacity Factor Comparison, 1988-1998**



**Table 9. Utility Retail Sales Statistics, 1988, 1993, and 1998**

Item	Investor-Owned	Public	Federal	Cooperative	Total
	1988				
Number of Utilities . . . . .	13	2	--	3	18
Number of Retail Customers . . . . .	832,918	3,477	--	7,430	843,825
Retail Sales (MWh) . . . . .	22,275,510	54,566	--	57,894	22,387,970
Percentage of Retail Sales . . . . .	99.5	0.2	--	0.3	100.0
Revenue from Retail Sales (million 1998 dollars) <sup>d</sup> . . . . .	1,352	4	--	6	1,361
Percentage of Revenue . . . . .	99.3	0.3	--	0.4	100.0
	1993				
Number of Utilities . . . . .	12	2	--	3	17
Number of Retail Customers . . . . .	876,626	3,504	--	7,777	887,907
Retail Sales (MWh) . . . . .	24,315,551	55,216	--	70,758	24,441,525
Percentage of Retail Sales . . . . .	99.5	0.2	--	0.3	100.0
Revenue from Retail Sales (million 1998 dollars) <sup>d</sup> . . . . .	1,394	4	--	7	1,405
Percentage of Revenue . . . . .	99.2	0.3	--	0.5	100.0
	1998				
Number of Utilities . . . . .	12	2	--	3	17
Number of Retail Customers . . . . .	923,193	3,487	--	8,365	935,045
Retail Sales (MWh) . . . . .	26,372,311	58,541	--	80,409	26,511,261
Percentage of Retail Sales . . . . .	99.5	0.2	--	0.3	100.0
Revenue from Retail Sales (million 1998 dollars) <sup>d</sup> . . . . .	1,334	4	--	7	1,345
Percentage of Revenue . . . . .	99.2	0.3	--	0.5	100.0